

**VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION**

☐ Conceptual Proposal ☒ Final Proposal Date 2/24/11

Contract ID 090821-602 Job No. J6U1028P & J6U1028Q

County St. Charles 364 Original Bid Cost \$43,991,879.40

Contractor Fred Weber, Inc. By Brandon Bates

Designed By MODOT Phone (636) 978-9835

VECP# 11-27 (to be completed by C.O.) VECP ☐ or PDVECP ☒

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Existing: Construct stormwater drainage on J6U1028P according to drainage plans which includes three new 30 inch pipe crossings at the new NOR.

Proposed: Fred Weber, Inc. proposed to leave in place three existing 30" RCP pipe runs that were to be replaced along the North Outer Road between Sta 40+00 to Sta 65+00. This will eliminate traffic control issues during installation, reduce costs and avoid utility conflicts. The existing pipe were inspected and determined to be in good condition.

2. Estimate of reduction in construction costs. \$38,135

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

None

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

(date)

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A
(date and/or dates)

Additional Comments:

The existing 30" RCP were visually inspected and found to be in good condition. The flowlines and alignments of the existing pipes are very similar to the proposed 30 inch RCP so hydraulically there are no problems with this concept. Finally, there are several utility lines in the way (Embridge Pipe Line, ATT, St. Peters Water and MO American Water) that would make the proposed 30" RCP installation to be difficult at best.

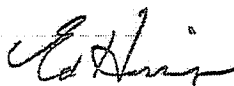
**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments: MoDOT field personnel have inspected the existing 30" RCP and agree with the contractor that it is in good condition. The flowlines and locations of the existing pipe are compatible with remaining drainage design in fact the existing pipe runs parallel and within a few feet of the proposed pipe. Discussed this proposal with consultant designer and they are not opposed to the idea. Leaving the existing in place eliminates traffic issues because traffic needs to be maintained on the existing roadway if the proposed pipe was installed. I recommend approval based on satisfactory results _____
Digitally signed by Michael Castro
DN: cn=Michael Castro, c=US, o=MoDOT, ou=Route 364 Project Office, email=michael.castro@modotmo.gov
Date: 2011.05.17 08:28:29 -0500
Submitted By Resident Engineer _____ Date _____
being obtained in the field.

Comments:

The existing RCP is in good condition and in the general location as where the plan RCP is to be positioned and the Designer is not opposed. I am in agreement as long as the contractor can get the desired out come as per plan.

☒ **Approval
Recommended**



Digitally signed by Matthew Budd
DN: cn=Matthew Budd, o=MoDOT, ou=D6 Construction
and Materials, email=Matthew.Budd@modot.mo.gov, c=US
Date: 2011.05.20 15:47:36 -05'00'

☐ **Rejection
Recommended**

District Engineer

Date

Comments: Not required.

☐ **Approval
Recommended**

☐ **Rejection
Recommended**

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments: Approval is contingent on satisfactory results achieved in the field and written acknowledgement by the contractor that they are responsible for the consequences including unanticipated impacts or delays.

☒ **Approval**



Digitally signed by Ronald Morris
DN: cn=Ronald Morris, o=MoDOT, ou=3H35, email=Ronald.Morris@modot.mo.gov,
c=US
Date: 2011.05.24 14:00:24 -05'00'

☐ **Rejection**

State Construction and Materials Engineer

Date

Distribution: Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator - MoDOT, P. O. Box 270, Jefferson City, MO 65102

Changes to the NOR Drainage

Deleted Items

PIPE

Description	From	To	Length (LF)
18" Class III RCP	N116	MS51	84.7
✓ 30" Class III RCP	MS50	MS51	57.7
✓ 30" Class III RCP	MN20	MN21	71.7
✓ 30" Class III RCP	MN10	MN11	55.7

STRUCTURES

Description	Quantity (EA)	Pay Depth (FT)	Class 3 EXC.
✓ MN10 (60" Manhole)	1	14.0	34.0
✓ MN11 (60" Manhole)	1	22.0	51.0
✓ MN20 (60" Manhole) Decreased	1	16.0	32.0
✓ MN21 (60" Manhole)	1	16.0	37.0
✓ MS51 (60" Manhole) Decreased	1	10.0	22.0
	5.0	78.0	176.0

*Decreased depth of the 60" manhole (MS51) from the original 22' to 12'

*Decreased depth of the 60" manhole (MN20) from the original 20' to 4'

Frames and Grates

Description	Quantity (EA)
✓ Manhole Frame and Cover Type 4 (MN10)	1
✓ Manhole Frame and Cover Type 4 (MN11)	1
✓ Manhole Frame and Cover Type 4 (MN21)	1
	3.0

Project Number	Line Item Number	Description	Units	Units Previously Provided For	Units To Be Constructed	Units Overrun, Underrun	Unit Price	Amount Of Overrun	Amount Of Underrun
J6U1028P	70	Class 3 Excavation	CUYD	2372.00	2196.00	-176.00	\$20.00		-\$3,520.00
	600	Manhole Frame and Cover, Type 4	EA	27.00	24.00	-3.00	\$345.00		-\$1,035.00
	1020	18" Class III RCP	LF	3540.00	3481.30	-58.70	\$50.00		-\$2,935.00
	1060	30" Class III RCP	LF	1776.00	1591.00	-185.00	\$75.00		-\$13,875.00
	1150	Precast Concrete Manhole - 60"	LF	290.00	212.00	-78.00	\$215.00		-\$16,770.00
								\$0.00	-\$38,135.00

Total VE Savings To Be Shared

\$38,135.00

Total Savings - MoDot - 75%

\$28,601.25

Total Savings - Fred Weber, Inc. - 25%

\$9,533.75

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☒ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☐ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

This PDVECP will allow the contractor to utilize three 30" RCP in place. The current pipe was found to be in good condition and at an acceptable elevation.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
